

Author index

- Albersheim, P. 147
 Aragón, J.J. 209
 Avila, D. 97
- Barili, P.L. 17
 Belot, F. 79
 Berti, G. 17
 Boros, S. 159
 Bozó, É. 159
 Brillouet, J.-M. 183
 Brisson, J.-R. 43
- Caldwell, E.E.O. 87
 Cañada, F.J. 209
 Catelani, G. 17
 Cescutti, P. 105
 Cheng, L. 67
 Cox, A.D. 43, 59
- D'Andrea, F. 17
 Darvill, A.G. 147
 Davey, S.N. 117
 Di Bussolo, V. 17
 Doco, T. 183
 Domon, B. 175
 Dubreucq, G. 175
- Fan, H.-N. 233
 Fernández-Mayoralas, A. 209
 Fournet, B. 175
 Fukunaga, K. 225
- Gács-Baitz, E. 159
 Garozzo, D. 105
 Glushka, J. 147
 Grzeszczyk, B. 1
 Guo, Z.-W. 233
- Hansen, K.P. 87
 Holst, O. 1
 Hui, Y.-Z. 233
- Jacquinet, J.-C. 79
- Kindel, P.K. 67
 Kroon, J. 125
 Kühn, G. 199
 Kuszmann, J. 159
- Lakin, M.T. 125
 Leigh, D.A. 117
 León de Pinto, G. 97
 Linhardt, R.J. 87
 Liu, M.-Z. 233
 López, R. 209
 Lorin, C. 125
- Maeba, I. 71
 Martín-Lomas, M. 209
 Martínez, M. 97
 Mendoza, J.A. 97
 Mischnick, P. 199
 Mouhous-Riou, N. 125
 Müthing, J. 217
- Nadkarni, V.D. 87
 Nakao, K. 225
 Nishiyama, Y. 71
- Ocando, E. 97
 O'Neill, M.A. 183
- Pellerin, P. 183
 Pérez, S. 125
 Perry, M.B. 43, 59
 Piekarska-Bartoszewicz, B. 137
- Radigina, L.A. 33
 Ridley, B.L. 147
 Rivas, C. 97
 Rizzo, R. 105
 Rollin, P. 125

Schubert, R.L. 87
Shimizu, T. 225
Smart, J.P. 117
Spiro, M.D. 147
Sugimura, Y. 225

Tabata, T. 71
Temeriusz, A. 137
Tetler, L.W. 117
Tikhonov, V.E. 33
Toida, T. 87
Truscello, A.M. 117

Van Gorp, C.L. 87
Varma, V. 43

Vidal, S. 183
Villanueva, D. 209

Wakimura, M. 71
Wawer, I. 137
Weiler, J.M. 87
Williams, P. 183

Yamakov, Y.A. 33

Zamojski, A. 1
Zhang, Z. 225

Subject index

Aceric acid

Structural characterization of red wine rhamno-
galacturonan II 183

Aglycon transfer

Intermolecular aglycon transfer of a phenyl 1-
thiogalactosaminide derivative under trichloro-
acetimidate glycosylation conditions 79

Allyl 3,4-di-O-acetyl- β -D-ribofuranoside

One-step glycosylation and selective deprotec-
tion of peracetylated monosaccharides for facile
syntheses of allyl glycosides with a free C-2
hydroxyl group 233

Allyl 3,4-di-O-acetyl- β -D-xylopyranoside

One-step glycosylation and selective deprotec-
tion of peracetylated monosaccharides for facile
syntheses of allyl glycosides with a free C-2
hydroxyl group 233

Allyl 3,4,6-tri-O-acetyl- β -D-galactopyranoside

One-step glycosylation and selective deprotec-
tion of peracetylated monosaccharides for facile
syntheses of allyl glycosides with a free C-2
hydroxyl group 233

Allyl 3,4,6-tri-O-acetyl- β -D-glucopyranoside

One-step glycosylation and selective deprotec-
tion of peracetylated monosaccharides for facile
syntheses of allyl glycosides with a free C-2
hydroxyl group 233

Anacardiaceae

Structural study of the polysaccharide isolated
from *Spondias purpurea* gum exudate 97

O-Antigen core

Structural analysis of the O-antigen-core region
of the lipopolysaccharide from *Vibrio cholerae*
O139 59

Apiitol

Reexamination of the acetylation of apiitol in
the determination of apiiose 67

Apiose

Reexamination of the acetylation of apiitol in
the determination of apiiose 67

Bacterial sugars

The synthesis of five L-glycero-D-manno-
heptose monophosphates I

Borate di-ester

Structural characterization of red wine rhamno-
galacturonan II 183

Chitin

Metal-chelating chitin derivatives via reaction
of chitosan with nitrilotriacetic acid 33

Chitosan

Metal-chelating chitin derivatives via reaction
of chitosan with nitrilotriacetic acid 33

Chondroitin sulfate

Preparation and biological activity of N-
sulfonated chondroitin and dermatan sulfate
derivatives 87

¹³C NMR spectroscopy

Structural study of the polysaccharide isolated
from *Spondias purpurea* gum exudate 97

Copper ions

Metal-chelating chitin derivatives via reaction
of chitosan with nitrilotriacetic acid 33

Cross-linking

Metal-chelating chitin derivatives via reaction
of chitosan with nitrilotriacetic acid 33

Cyclodextrins

Study of the inclusion complexes of aromatic
molecules with cyclodextrins using ion-spray
mass spectrometry 105

α - and β -Cyclodextrins

Fast atom bombardment mass spectrometry as a
tool for the rapid determination of enantioelec-
tive binding of methylated cyclodextrins 117

5-Deazapteridine

Synthesis of pyrido[2,3-d]pyrimidine (5-
deazapteridine) C-nucleosides from a glycosyl
enaminone 71

- 6-Deoxy-5-thio-D-glucose
 Synthesis of 6-deoxy-5-thio-D-glucose 159
- 2-Deoxy-2-trichloroacetamido-D-galactose
 Intermolecular aglycon transfer of a phenyl 1-thiogalactosaminide derivative under trichloroacetimidate glycosylation conditions 79
- Derivatization
 Synthesis and characterization of tyramine-derivatized (1 → 4)-linked α -D-oligogalacturonides 147
- Dermatan sulfate
 Preparation and biological activity of *N*-sulfonated chondroitin and dermatan sulfate derivatives 87
- Dimer
 Structural characterization of red wine rhamnogalacturonan II 183
- Dioxolane reductive opening
 The conversion of D-galactopyranosides into 2-amino-2-deoxy-D-talopyranosyl derivatives: Some new data 17
- E. coli* β -D-galactosidase
 A direct enzymatic synthesis of β -D-galactopyranosyl-D-xylopyranosides and their use to evaluate rat intestinal lactase activity in vivo 209
- Enzymatic glycosylation
 A direct enzymatic synthesis of β -D-galactopyranosyl-D-xylopyranosides and their use to evaluate rat intestinal lactase activity in vivo 209
- Exopolysaccharide
 Structure determination of a novel uronic acid residue isolated from the exopolysaccharide produced by a bacterium originating from deep sea hydrothermal vents 175
- FAB/MS
 Fast atom bombardment mass spectrometry as a tool for the rapid determination of enantioselective binding of methylated cyclodextrins 117
- FAB-MS
 Model studies on methyl amyloses: correlation between reaction conditions and primary structure 199
- Galactolipids
 Synthesis of glycolipids: dialkyl *N*-(4-lactonamidobutyl)succinamoyl]-L-glutamates 225
- β -D-Galactopyranosyl-D-xylopyranosides
 A direct enzymatic synthesis of β -D-galactopyranosyl-D-xylopyranosides and their use to evaluate rat intestinal lactase activity in vivo 209
- Gangliosides
 Influenza A and Sendai viruses preferentially bind to fucosylated gangliosides with linear poly-*N*-acetylglucosaminyl chains from human granulocytes 217
- GLC
 Reexamination of the acetylation of apiitol in the determination of apiose 67
- Glycolipids
 Synthesis of glycolipids: dialkyl *N*-(4-lactonamidobutyl)succinamoyl]-L-glutamates 225
- Glycosaminoglycan
 Preparation and biological activity of *N*-sulfonated chondroitin and dermatan sulfate derivatives 87
- Glycosphingolipids
 Influenza A and Sendai viruses preferentially bind to fucosylated gangliosides with linear poly-*N*-acetylglucosaminyl chains from human granulocytes 217
- Glycosyl enaminone
 Synthesis of pyrido[2,3-*d'*]pyrimidine (5-deazapteridine) C-nucleosides from a glycosyl enaminone 71
- Grape
 Structural characterization of red wine rhamnogalacturonan II 183
- Gum exudate
 Structural study of the polysaccharide isolated from *Spondias purpurea* gum exudate 97
- ^1H , ^{13}C , ^{15}N NMR
 ^{13}C , ^{15}N CP MAS and high resolution multinuclear NMR study of methyl 3,4,6-tri-*O*-acetyl-2-(3'-aryleureido)-2-deoxy- β -D-glucopyranosides 137
- L-glycero-D-manno-Heptose monophosphate
 The synthesis of five L-glycero-D-manno-heptose monophosphates 1
- Heptose synthesis
 The synthesis of five L-glycero-D-manno-heptose monophosphates 1
- Homogalacturonan
 Structural characterization of red wine rhamnogalacturonan II 183
- Hydrothermal vent
 Structure determination of a novel uronic acid residue isolated from the exopolysaccharide produced by a bacterium originating from deep sea hydrothermal vents 175
- Inclusion complexes
 Study of the inclusion complexes of aromatic molecules with cyclodextrins using ion spray mass spectrometry 105

Intestinal lactase evaluation

A direct enzymatic synthesis of β -D-galactopyranosyl-D-xylopyranosides and their use to evaluate rat intestinal lactase activity in vivo 209

Ionspray mass spectrometry

Study of the inclusion complexes of aromatic molecules with cyclodextrins using ionspray mass spectrometry 105

Lipids for modified enzyme

Synthesis of glycolipids: dialkyl *N*-[*N*-(4-lactonamidobutyl)succinamoyl]-L-glutamates 225

Lipopolysaccharide

Structural analysis of the lipopolysaccharide from *Vibrio cholerae* O139 43
Structural analysis of the O-antigen-core region of the lipopolysaccharide from *Vibrio cholerae* O139 59

MALDI-TOF

Model studies on methyl amyloses: correlation between reaction conditions and primary structure 199

Methyl amyloses

Model studies on methyl amyloses: correlation between reaction conditions and primary structure 199

Molecular mechanics conformation

Structural analysis of 6-*S*-(benzoxazol-2-yl)-6-deoxy-1,2:3,4-di-*O*-isopropylidene-6-thio- α -D-galactopyranose by means of X-ray diffraction, high resolution NMR spectroscopy, and molecular modelling 125

MS-MS

Fast atom bombardment mass spectrometry as a tool for the rapid determination of enantioselective binding of methylated cyclodextrins 117

Nitrilotriacetic acid

Metal-chelating chitin derivatives via reaction of chitosan with nitrilotriacetic acid 33

NMR

Structural analysis of 6-*S*-(benzoxazol-2-yl)-6-deoxy-1,2:3,4-di-*O*-isopropylidene-6-thio- α -D-galactopyranose by means of X-ray diffraction, high resolution NMR spectroscopy, and molecular modelling 125

Non-chair conformations

The conversion of D-galactopyranosides into 2-amino-2-deoxy-D-talopyranosyl derivatives: Some new data 17

N-sulfonation

Preparation and biological activity of *N*-sulfonated chondroitin and dermatan sulfate derivatives 87

C-Nucleosides

Synthesis of pyrido[2,3-*d*]pyrimidine (5-deazapteridine) *C*-nucleosides from a glycosyl enaminone 71

Oligogalacturonides

Synthesis and characterization of tyramine-derivatized (1 \rightarrow 4)-linked α -D-oligogalacturonides 147

Oligosaccharide

Synthesis of glycolipids: dialkyl *N*-[*N*-(4-lactonamidobutyl)succinamoyl]-L-glutamates 225

Pectin

Structural characterization of red wine rhamnogalacturonan II 183

Peptide

Synthesis of glycolipids: dialkyl *N*-[*N*-(4-lactonamidobutyl)succinamoyl]-L-glutamates 225

Per-methylated cyclodextrins

Fast atom bombardment mass spectrometry as a tool for the rapid determination of enantioselective binding of methylated cyclodextrins 117

Permethylolation

Model studies on methyl amyloses: correlation between reaction conditions and primary structure 199

Polymer chains

Model studies on methyl amyloses: correlation between reaction conditions and primary structure 199

Pyrido[2,3-*d*]pyrimidine

Synthesis of pyrido[2,3-*d*]pyrimidine (5-deazapteridine) *C*-nucleosides from a glycosyl enaminone 71

Reaction mechanism: transannular participation of the sulfur atom

Synthesis of 6-deoxy-5-thio-D-glucose 159

Rearrangement reactions of mesylated methyl 5-thio- α -D-glucopyranoside

Synthesis of 6-deoxy-5-thio-D-glucose 159

Receptor function

Influenza A and Sendai viruses preferentially bind to fucosylated gangliosides with linear poly-*N*-acetylactosaminyl chains from human granulocytes 217

Reduction of 5,6-thiirane rings with LiAlH_4

Synthesis of 6-deoxy-5-thio-D-glucose 159

Rhamnogalacturonan II

Structural characterization of red wine rhamnogalacturonan II 183

Sialyl Lewis^x

Influenza A and Sendai viruses preferentially bind to fucosylated gangliosides with linear poly-*N*-acetylglucosaminyl chains from human granulocytes 217

Solid state NMR

¹³C, ¹⁵N CP MAS and high resolution multinuclear NMR study of methyl 3,4,6-tri-*O*-acetyl-2-(3'-arylethoxy)-2-deoxy-β-D-glucopyranosides 137

Spondias purpurea

Structural study of the polysaccharide isolated from *Spondias purpurea* gum exudate 97

Structural analysis

Structural analysis of the lipopolysaccharide from *Vibrio cholerae* O139 43

Structural characterization

Synthesis and characterization of tyramine-derivatized (1 → 4)-linked α-D-oligogalacturonides 147

Structural study

Structural study of the polysaccharide isolated from *Spondias purpurea* gum exudate 97

Sulfonamide derivatives

Preparation and biological activity of *N*-sulfonated chondroitin and dermatan sulfate derivatives 87

Synthesis

Synthesis of pyrido[2,3-*d*]pyrimidine (5-deazapteridine) *C*-nucleosides from a glycosyl enaminone 71

Talosamine

The conversion of D-galactopyranosides into 2-amino-2-deoxy-D-talopyranosyl derivatives: Some new data 17

Thioglycoside

Intermolecular aglycon transfer of a phenyl 1-thiogalactosaminide derivative under trichloroacetimidate glycosylation conditions 79

Thiosugars

Structural analysis of 6-*S*-(benzoxazol-2-yl)-6-deoxy-1,2,3,4-di-*O*-isopropylidene-6-thio-α-D-galactopyranose by means of X-ray diffraction, high resolution NMR spectroscopy, and molecular modelling 125

Trichloroacetimidate glycosylation

Intermolecular aglycon transfer of a phenyl 1-

thiogalactosaminide derivative under trichloroacetimidate glycosylation conditions 79

Tyramine

Synthesis and characterization of tyramine-derivatized (1 → 4)-linked α-D-oligogalacturonides 147

Ulose oximes

The conversion of D-galactopyranosides into 2-amino-2-deoxy-D-talopyranosyl derivatives: Some new data 17

Ureido sugars

¹³C, ¹⁵N CP MAS and high resolution multinuclear NMR study of methyl 3,4,6-tri-*O*-acetyl-2-(3'-arylethoxy)-2-deoxy-β-D-glucopyranosides 137

Uronic acid

Structure determination of a novel uronic acid residue isolated from the exopolysaccharide produced by a bacterium originating from deep sea hydrothermal vents 175

Structural characterization of red wine rhamnogalacturonan II 183

Vibrio cholerae

Structural analysis of the lipopolysaccharide from *Vibrio cholerae* O139 43

Structural analysis of the O-antigen-core region of the lipopolysaccharide from *Vibrio cholerae* O139 59

VIM-2

Influenza A and Sendai viruses preferentially bind to fucosylated gangliosides with linear poly-*N*-acetylglucosaminyl chains from human granulocytes 217

Virus binding

Influenza A and Sendai viruses preferentially bind to fucosylated gangliosides with linear poly-*N*-acetylglucosaminyl chains from human granulocytes 217

Wine

Structural characterization of red wine rhamnogalacturonan II 183

X-Ray diffraction

Structural analysis of 6-*S*-(benzoxazol-2-yl)-6-deoxy-1,2,3,4-di-*O*-isopropylidene-6-thio-α-D-galactopyranose by means of X-ray diffraction, high resolution NMR spectroscopy, and molecular modelling 125

Xylose

Reexamination of the acetylation of apiose in the determination of apiose 67

